

SEQUENCE LISTING

<110> Horrigan, Stephen

<120> Cancer Gene Determination and Therapeutic Screening Using Signature
Gene Sets

<130> 689290-73

<150> US/60/236,033

<151> 2000-09-28

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<170> PatentIn version 3.0

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cctaaaatcc	caattctcct	tctgctccca	tacctttcc	cagtcatggc	ccttgtggat	360
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<213>	Homo sapiens					

<220>
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<223> n=a,t,g or c

<400> 27
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agaccttgta cagcgtctgc agcagactgt ggccggcgaa ggagcaggat tccaggcg
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<210> 28
<211> 329
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

<400> 28
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<210> 29
<211> 427
<212> DNA
<213> Homo sapiens

<400> 29
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<210> 30
<211> 426
<212> DNA

<213> Homo sapiens

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<210> 31

<211> 456

<212> DNA

<213> Homo sapiens

<400> 31
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<210> 32

<211> 386

<212> DNA

<213> Homo sapiens

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<210> 33

<211> 240

<212> DNA

<213> Homo sapiens

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<210> 34
<211> 427
<212> DNA
<213> Homo sapiens

<400> 34
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ctgagag 427

<210> 35
<211> 476
<212> DNA
<213> Homo sapiens

<400> 35
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tcatggtttt aaaggacaga atttcctgga gaatgttggc cctcttgcgt gtgctactgc 180
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tcagtttga attcttcaa ccattttgt caaaagcctt gctgttagcca ggtgtggtgg 420
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<210> 36
<211> 428
<212> DNA
<213> Homo sapiens

<400> 36
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gcttgctgg cagaataatt gtctaaattc tagaatatgg gaaacagggtt tttttctgga 180
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ttttaaaatc attatgtaga ttataatacc tatgctgcac atcaatttat gtgggatgac 360
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<210> 37
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<212> DNA
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cattaagtag	tagtagaaat	acggtgaggc	cctgagactg	gcctggtgag	cgagggaaagg	180
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caacccgc	tgcttgc	cgctgccc	gccactgaca	ccttcaccat	ggccacctag	180
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ctgacaactc	cttgctctgg	gcagtgaaca	ttagctgtg	ggtgtggggt		530
<210>	40					
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<212>	DNA					
<213>	Homo sapiens					
<400>	40					
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tctttatggg	tatacatcat	ataaaaataa	atcatttca	tacttttta	aatgttgca	180
ctgtaagtca	caagaatgag	ctactcagtc	agtctcccta	tttcaggaag	cctttgcatt	240
gaaggacaga	gtctctgtga	agttctctgg	gaagtaaagg	aggcgtgtat	agggactgaa	300
ggctgcctt	gctcagaaga	gctcaaggca	acagggcaat	ttggggagag	tcacaggcac	360
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<210> 41
<211> 257
<212> DNA
<213> Homo sapiens

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ctggaaaggc gtggagtctt ctccagttct cctagttac agatgttg acctaggctt 180
acaatgggc tgggtctga aagcgggacg tggctgcgg gggtcaaaga gccggtttgg 240
tggaggttag cgccaca 257

<210> 42
<211> 510
<212> DNA
<213> Homo sapiens

<400> 42
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ccaaggagaa agaggggggt ccaggctccc ctcccaggca gagaagctgc cgtggctggc 300
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<210> 43
<211> 392
<212> DNA
<213> Homo sapiens

<400> 43
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aagaaaagct gaaggagaga catcgagagg cagaaaagtc tcacagcaga ggaaaggaca 360
gggagaaaaga aaaagacaga agggcccgga ag 392

<210> 44
<211> 394
<212> DNA
<213> Homo sapiens

<400> 44
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atacaagatg ttccaaatgtt caataccata aaataccaga aaaatgcaat aaaatcacag 180

acagatgcta ttatacagct attaaaacaa ctaaaattaa aaagactaac cataccaagt 240
atggcaagaa ttagagaaaa taagaagggtt cacatactgt tgatgagaat gcaaatggta 300
cagttagggtt atagtctggc cttgtcttta aaagtgacgc attcacgtac actgtactac 360
tgaccaggaa gaaataaagc atttctgcat atta 394

<210> 45
<211> 340
<212> DNA
<213> Homo sapiens

<400> 45
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<210> 46
<211> 418
<212> DNA
<213> Homo sapiens

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cctctgaggc acggctttca gttacttctt cgaccagatt ctccaaaagg agaataattc 360
cagaactgag agtaacatag cattgatgat gagaaaccgt gatgtccagt aatggacc 418

<210> 47
<211> 453
<212> DNA
<213> Homo sapiens

<400> 47
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<210> 48
<211> 411
<212> DNA
<213> Homo sapiens

<400> 48
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ctcatctcct agtgctgtcc tcattctcg aaagttcctg agtcaacaga aaggggacgc 360
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<210> 49
<211> 269
<212> DNA
<213> Homo sapiens

<400> 49
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taaggcttaa tgaaagagaa atccatagta ttatgaactg atttcttta gcttctgaat 240
taagtgcact ctttccaaaa tcaagtgg 269

<210> 50
<211> 174
<212> DNA
<213> Homo sapiens

<400> 50
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caagctgact taggatgcaa tggtagacacc accagcctt ggggagggtt ctcc 174

<210> 51
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 51
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gacggaaaaga accagactcc tctctgaggt tnnggaagaa ttagaaaagg taaaacaaga 180
aatggaagaa aagggcagca gcatgactga tggtagctt ttggtaaga ttaancnnng 240
cttnncanaa ctgaagcaag aanctgtagn gatggacatt agantggca ttgtgg 296

<210> 52
<211> 409
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<223> n=a,t,g or c

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<210> 53

<211> 332

<212> DNA

<213> Homo sapiens

<400> 53
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aaagagacta aagttgaaga atttctttt atcaggccac ccaagtattt caaaccagaa 180
aaaaatttttta atataaactg ttgcaatcct tacatctta tgcaattttt ttggaaaagt 240
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<210> 54

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<223> n=a,t,g or c

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aacaagcagt ttcacttcag agacttcattt gcaggaaccc agtttcctta tgtggaaaaaa 240
agtgattata aataacagt atctgaaagg tggttgagag gattaaatga gatcacctat 300
gcaaaacaaat acatgttaggt atgaaagacc atccgtcctg ggggtngtgg aaagtttaag 360
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<210> 55

<211> 271

<212> DNA

<213> Homo sapiens

<220>
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 <223> n=a,t,g or c

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<210> 56
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

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<210> 61

<211> 164
 <212> DNA
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<210> 62
 <211> 410
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 <213> Homo sapiens

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 gctacaagtt cacattaaac aaactatttc gcggaggcg gtcgcgctga gcctaggcgg 300
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gctagctta	caatagcaat	ctaacatac	acaaaggcaa	acattgagta	aaatgctagg	180
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aacgccaa	gtttaatttt	tcacagttat	actttaatgt	catttatata	aacgtttatt	300
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<220>
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caaggaggctc tcttggctta aagggagccc agcttggnca ngatcaggtg ttaaggacac      180
gtgagcacca aattgagcct ttctcagtga tgaggtcaaa aaatgaaaagc gcgcaggaag      240
ggttctcccc aggggaattc tgggtgtcc caangtcatc cggggccccc cacgcttcgg      300
gccatgctgt tctggtctcc agccctcatg gccgtggcaa ttggacagcg tcaacttcct      360
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<210> 73
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<213> Homo sapiens

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acctgaatg acaagcgaca tactcgaaat ctgcagctct cctcccgag cccagcgtgc      240
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<212> DNA
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<212> DNA
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<210> 84

<211> 394

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 86

<211> 139

<212> DNA

<213> Homo sapiens

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 <211> 384
 <212> DNA
 <213> Homo sapiens

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<210> 90
 <211> 524
 <212> DNA
 <213> Homo sapiens

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 <223> n=a,t,g or c

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<211> 488
<212> DNA
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<220>
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<211> 415
<212> DNA
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<210> 93
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<220>
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<223> n=a,t,g or c

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<210> 94

<211> 1201

<212> DNA

<213> Homo sapiens

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<211> 760

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<211> 1955

<212> DNA

<213> Homo sapiens

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<210> 107

<211> 512

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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<212> DNA
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<211> 1023
<212> DNA
<213> Homo sapiens

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<211> 422
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<213> Homo sapiens

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<211> 263

<212> DNA

<213> Homo sapiens

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<210> 112

<211> 461

<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA
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gcaaagtctc tttaggaaatg cacaaaaata atacaacctt aaaaatcaga ctagaagatg 180  
gaatataagt ggtttcccttg taatttttt ttaagcttgg agaggttaata acacatcttt 240  
gaattcaaac tgaggactgc tgcttaatgg tgcttttaca gggtgggtct aaaattttg 300  
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CCTCTTCTCT CCCCTGATGG TGGTAGCTA CAGGCCAGTTA CANTCCCTG GCTGCCTGTG      480
AGAACGCCTAC ANTGGCAT TTTCCTCCCN AAAATTACCA CGGTNGACCA AGTGAACATT      540
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<210> 125
<211> 523
<212> DNA
<213> Homo sapiens

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<223> n=a,t,g or c

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GTTAAAGGTG CCCCCAGCCC GGTAGCCAGA GATGCCACTC TTTCTGCCCA GCTAACACCA      180
TTGTGCGCT GTGTGCGAGT GGTGCCAGCA TAACCTCAAT CACACCAATA TTGCTGCCAC      240
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CCATACTCTG AGAGTTTGCT CTCTGAAGC TGACACCAGG ATCAAGTTCC ATCTGGAGCA      420
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<212> DNA
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<400> 126

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<212> DNA

<213> Homo sapiens

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<211> 454

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 134
 <211> 168
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 <213> Homo sapiens

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 cattggctgg tgggctggcc gagccaccct caggcccttg cccaccccggt ccggccctctg 180
 cctgggtccag agggatggct ggtgacgagg ggggaggtct tgggagaggc tgggaggcag 240
 gagaga 246

<210> 137
 <211> 263
 <212> DNA
 <213> Homo sapiens

<400> 137

aaacaataaa cagaatttat tagctcatat aacaaaaaaaa gtcagaggtaaggccatc 60
tcaagcaagg cttgatcctg tacttaaaca atttcaccaa ggacttgatc tcttcgtcc 120
tctcaactct cccttcagtg gtgtcagtt cacgtgattc ctggtcatga tcccaaggcc 180
caaggtggtc atcataaaga cccaggaata ctactacattt ttcacattc aacagggaa 240
ttaaacacgc ttctaccatc cat 263

<210> 138
<211> 394
<212> DNA
<213> Homo sapiens

<400> 138
tttgtcaact ctgttcttcc atgcctttat tgtaacagc aatggacaag aacaatacca 60
ggcatagcag acacccttagc ccagtacctg aggtgccagg cagccctga aggcaattgg 120
cacatccagt cccagccaa gatccagtct acccaggcca tgtcccgaa tggcaggagg 180
cgtctgtcca gtttgtatgt gtggatcagt ctctctgagt gtctgagccg ctgcctgcag 240
ggccccccca ttctccgcac atggtagggg ctgttaggaa catagcgtgg catccccgg 300
tggaccactg ggcccagtg ctgaccatgg ggatttagggc cagggattgg aggtggcaga 360
ggccaggca caaagttcac tccagggcca catc 394

<210> 139
<211> 303
<212> DNA
<213> Homo sapiens

<400> 139
ttttcatttt gaaaaagcta tttactttt ttccaaatat tatccaaaaa ggtgtttac 60
agataagggt caatacgaag tcaaacattc tacagaagaa aatcgaaaa acagacatta 120
agaataattt taacagaaga aaaagctcac atctatctag atgtggctat gttccatggg 180
aaaaatttca gcatccaaag tgcaagaaaa aaatgactgt agctttctt accacaaaat 240
attgacaatc ttcccttata gcctactctt tattgttagt tggatgcca aaggatgata 300
tat 303

<210> 140
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 140
gaacaaaaaca gaatgttatt ttatTTTGTG tctaagagta caaaantcat aatcaccaac 60
ctctgggaa tcccaaggca ganttttagt cccagacccc ccaacatctt cactacatac 120
atggaaagttt cttaactctt ttctacctt gttatTTGAC ctataattttt aggataaaaat 180
acaacattctt aaaaatcctgg taatatggcc gatataataat ttatTTTGTGA atgtgggtga 240
gagtcttggaa gtctggaaag catttaactt attaaaagac 280

<210> 141
<211> 495

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 141
 tttttttaaa tttaaggag tttaatttag caataaacag ttcaagaatt gggcagcctt 60
 cccagccaga gtaggctcg acactccagc gcagtcacac ggtggaaggt ttgcggacag 120
 aaaatggaag tgaggtacag aaacagctgg gcttggctac agcttggcat ttgccttatac 180
 tgaacgtgg ttagaacagt ggctacattt gattggccaa aactcagtga ttggcacaag 240
 tgttagtctgt ttacaccctcc acttgtcacg atatacagac aaaccttttag gccaaactta 300
 aatatataag gaggcagctt taggctaaac tttatcca tacctgtatt ccaacacttt 360
 gggaggccga ggcgggaggg atcaattttag ccttaggaatg tagagattca gcccaagcaa 420
 catagtgaga ccttgcctct gtggaaattt atttagccng ggcttggtag cctgtaccng 480
 tagtcccagc tactc 495

<210> 142
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 142
 tttttttttt tttttcttag ttaatatctt taattttta tggatataat actattttt 60
 tctccaccaa aataacaata tatttgcagg cgaaaacatg tatgattttt aatgcacttt 120
 tggaaatctta gagtagaaacc actactctag taataacttgt aataaaatta aaatagttt 180
 aaacacttcc ataaaagaatt aggggtgccc agctccttga tttcccccta gggataaaaga 240
 tatccatgtt caattccagg gagttccct gtaattccctc aaaaaaggca ctataaaaac 300
 tcttaggagg gatatttagga taaaggctca cttaggcaat agccctttt ccccacat 360
 tctggaggg ttctacaaaaa gctattttga tactcattcc gg 402

<210> 143
 <211> 463
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 143
 ggtanngatc ngtgtattta taatcaagtt gaatcaagag tgacaagaag aaatacagct 60
 agagttatat ttttgcucca ggggtattct tttccttagaa gagcaagtcc atttttagaa 120
 aattttaaatg tcttttatttgc ttactttcca aatattttgg ttaaacaat atctcttgca 180
 aatgtatctt caaatctt gcctacatgc atacaatttgc ttctcccaa ctgcttaggg 240
 gaaattccctt caaatgtttt agggagttct aacacatcaa atctgatcat tttgtttaca 300
 tttagggaaac accaggacat tgtggatct cttctttaaa aaaacaggat ttttattttt 360
 ctggcattttt caccctcagg acatgtctcg taaggtntga ggggttaggc taggnagggg 420
 ggnnggttcc agggcaacac atttacaaaaa tggacncccg ggg 463

<210> 144
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,q or c

<400> 144 aaaaatttgta aaatthaaggtaaaataattg ggaatataaaa accccaatgt aagataaaagc 60
aaatttgctttt attatTTTtaaaaatgaaga gaccccaaat acaganttaa gcagtaaaaa 120
tctttttag ttcTTTcatt aatctgtatg atccaaactc aagtacgtaa ttttttcttt 180
tttaagaggc aggttttgc ttgttaccca ggctggaggg ccatggcacc accacgcctc 240
acggcagcct ccacctcatg ggcataaagt gatccttctg cctcagcctc ccacgttaggc 300
agggaccaca ggccgaanac ccatgctcag ttattattat tattatTTTt aggagacagg 360
ggtcttggct atgttggccc gggnttgc taaaactncg gggctcaagt aatccttcca 420
cctcagtnntt cctaaggtaac gtaatatttt taataggcaa accatt 466

<210> 145
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,q or c

<400> 145 anncccgat aagtgtgcaa ttatggagaa gtttatctgt aagaacagat aaaggaaat 60
tgtctacaca tgtgcgtatgta gaaagaaaatt atggagatgg attcagccct caaagcaaaa 120
gctctatttta atttgaattt ttacttaaat caaaagcaga aaatttaaat tgtcactaat 180
cttaactggt caagggcatg atgcatacgt ctcataacct gggcaaaaac ctgcccttaa 240
atgatcaggat cagaaccagt aagagtctct atcctgggtc ctcgtataa cagagagctc 300
ccaaatnaaa ttatatgtat tacagagcca attcagccca atntacagtc tctgattttc 360
acatggccta cacaactttt atgtt 385

<210> 146
<211> 372
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> n=a,t,g or c

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<400> 146 cattaacttg acatctggta aaacaaaatt ttgcgtanat ctaaatcaaa acaaanaaca 60
gacatgacac tttctcagtt aaaatagttt aataaaagca acaaaaactgt gctaacgatc 120
agaatcaaaa atgagatatt aggttagactt ataaaaacaaa qtataqttat ttttqattt 180

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caaataaaacc atgtgcaaaa ttgtaaaatg ccaatgtgtc tgagaaaagc attaacagtc	240
cttttagcaa ttttatata aagatgtttt taaagtgcga cagcttaagg cattatattt	300
taaagtttaa taaacatcta atttcaacat ctctccaaga acagacttct tctcaataag	360
ctataaaacta tt	372
<210> 147	
<211> 463	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<223> n=a,t,g or c	
<400> 147 ctttccatat ttcaacttta tttaaaatat gaggtttat gtccagaagg gagggcagtt	60
gccatcgaa ggtgaagtga ggcacaatac tattgggttg cgggccaagt acacagggtt	120
gcactgtgaa ggaactgagg aggttctggg agggcctgg gacaacaatg gatttgggga	180
gatccacaaa ggaaatttcc atttcctccc caggttagct attcagtggg tggattattc	240
agtctttta agcaaggta ctgctccctt gcaacatcaa caaaagtgcc aaagctgagg	300
acacagagaa taccatcatt gtctttgtt tctctttatg cctggatggg gaaaggaatg	360
gaaactaata gcagaaaatg aaacatttcn ggatgttatac ccttgcctg aagaatcacg	420
ggcttgtgta gagacctctt tccttcntt ttttttttgg agg	463
<210> 148	
<211> 468	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<223> n=a,t,g or c	
<400> 148 catctctccct ttttctttg gacttccctg agacccccc tcctggcca gccgggtct	60
gcacatcgca gctctttcag ctgtaatcca ctgttattat aaggagccct gttgctgtgg	120
tggtaaggag tggggaaagg aagcattcca ttttcttagg attacatctc aatctttgg	180
ntggcctat gttgctgtac tgtgaccctt acaaatgtt cttaacctt ttcctccctc	240
cttaggttga cacagggaaat cttaggagggt gactcgagtc agaggaacta tcttctcccc	300
aggatggggg ataaggactc tggggtaaag gcccctttcc ntggggagag gtaaggtctt	360
taatcatagg gggaaacatt tctgagggcg cactttcaaa gggcatttac ntttccctt	420
ncccttncc agagccnggg gggaaagggt ntatctnngg ggtctttt	468
<210> 149	
<211> 496	
<212> DNA	
<213> Homo sapiens	
<220>	

<221> misc_feature
<223> n=a,t,g or c

<400> 149
ttttttttt tttttctta ttaataaaatt ttatTTTtag cacaatcatt tacccaaaaaa 60
gagagttga gaatgttcga gaatctctac cactcggtaa ccatgctggc tgTTtatca 120
gaaaaatcca taaacatACA cagcagcgag ctgtttcac aagacttcct gctaataaac 180
acaacacttt ctccTccact cagatgggag cctcagnatg ccaaaacggc aggatgtgcc 240
aactaactat agggctcgTT gctaaggcag gaggaaatct attcaagtTT gtccaggcaa 300
attcgattgt acagtgggga tggcgtctg cttctgcggg cttgggaca ggggaggcca 360
ctgggtctnt gctggctgtt cccctgtagg gcagggtcga ngctgggtng gccctttagg 420
aggcAaggg taaaatggg tttntcatgg gggTTtagga acataagggg ntTTTgagg 480
naaaaattgn caaatt 496

<210> 150

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<223> n=a,t,g or c

<400> 150
tttttttct ttataagtgc tttaattaaa accaatctta ttatgaaaaaa caaaccaaaa 60
aaacccTTgca ttgatggatg gtagctattt gcaatttctt gtttggctg gatgcattga 120
aggattaaaa atttatatt taaggtgtgc cttaaaactgc aaggttccct gatTTtattc 180
tcatcttagga attttgctg ctttaggtag ctgacaacat gcagatccat actctatctc 240
ttaagatTTt ctTTTgggaa ctgattccag ggtgaaattt tcttagggga aggatgtggg 300
ctaggaggct ggggtatggc aaaggcatgt tctataggca agggaaaggc caggatggag 360
gtgaggggggt caaaaatcta ggttattaaa attttagggg gngacactng ggTTTaaat 420
aaacntattt ctcccac 438

<210> 151

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<223> n=a,t,g or c

<400> 151
ctggagcnnt tnnnntttt tttgctcaat gaaaatactt cgtcTTTT tatcagcaat 60
acatatAGTT ccaacaagaa ctattcatca cAAACTGCCA gcctggggat ttcttcatga 120
aatTTTTGT atTTGCTTGG tacatggTC aaggAAactc ttgtgtttgt gccaatcagg 180
gaaataaaact gaacaataaa cgacactgaa atagagtatt aggcaatATG tagCTTGTt 240
tttgcTTTT tttttaaaaa aaaaaccact gaatttttt ccacccacaa acacatggga 300
aagtgcagga aaccagttaa tctatggta tggtatttgc catacggtt acaaAcnagg 360
ccaaattaaa a 371

<210> 152
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 152
 taaaatgatc ttacaatgtc aacatcaatg ttaataaaaa tatataatag gctgaattca 60
 tcaatgatag aataagtgt aattcacttg gaggttccat cttcaaagt aagccttca 120
 tagataaaatg aaaatcctt attttgtaga attttaaaga ttgttaaagg ctgggtcaag 180
 gcaaagccac ctctattaga agggaaaga aaagcaagat gaaacaaaat atgttatcat 240
 acatatcgcg tgtgctatga gcattttct actcctgcc aattgaaaat tctaggttc 300
 aacattcttc aggatttaac aagtcaaaaat aaaagccgga attcaaattct agg 353

<210> 153
 <211> 429
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 153
 agctcacggg cgccaggcag aacccctt ttagtgagtt gtaaagtcag agagaagctg 60
 aaaaattaga gtgagaccac ttattattta atgattttta agacccgggt cacctttaaa 120
 ccagaattgg cttgaaaatg gagactgtga tatgcacggc taaaataagg gaaatgtcca 180
 tttgaactga gactagaaag catgacttg cattgcagct ggctctgttg ataaaaatcc 240
 ctcatccctt tgagtgttaa attgaaagac tangaaagca tttccaaggc gaagtgcctc 300
 atgnctgtct ctcaggnntc ccacagctgg gtccccgggc atgcctgttc tggatgctct 360
 ncattgcgag ggaaactgcc nttcacccnt agctcgtaat cccagctnct cggggggggtc 420
 gagggcagg 429

<210> 154
 <211> 203
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 154
 actttcttga atttattttt atttcaatgg ttttaatgaa tatttccgag aaagttcaca 60
 atactcattt ttatgtttca atttatattc aaatttactc aaagntaata tcacccggta 120
 ttatttagaga agtctctcta aatactagaa ctgacatttc agatccnntt gtaataatac 180
 tgccccata aaatatgcattt agg 203

<210> 155
 <211> 319
 <212> DNA

<213> Homo sapiens

<400> 155
tttccagtt aaattatttt taattttaga aactgagatt gaagtacagt ttttagttta
aaatattaaa aatgaaaaaa ccttaacat tattaaagat gtgttgtac aaagttccta
gatatacata tgtacaaaac aaatagatat tactatctga cacctcaacc catgacttac
cctaaatctc ctgatatgaa caattaatct actgggaggc ttttccaat aagtttcaa
tttcttgacaa agatttgc tgccattcat attctgtgca tggatgagga catttaatca
cagactattt caacttaat 319

<210> 156

<211> 276

<212> DNA

<213> Homo sapiens

<400> 156
tttttttttt taggacaaat aaaatttatt tttctctgta aattcattta aaagtatgtt
atctatgatt atcctatcaa ggtcagaaat gttagatctt actccaagat aggtaaacag
cccttggaaa cgcaacaaa agagacgatg atcttatgag ctcattatg ttcatgcgtg
aaagtgtgaa gatcaactgc tttgctgtgt ttctacaagt ttccttgact gtaaaaacag
tcaaaatgta accaacctaa ttcaagatgt taaatt 276

<210> 157

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 157
tcctngcnng ggtcgttact gttcatttagg ggagaaaagca gtttaaaatg tctcagcctc
tcgccttcc tccaatcaac acaaagtata ttagacaaag tggataaaaga ctggcattga
catcttccaa atagcaaaat caattttata atttaaagac aaaaaatgct ttaactgcag
aggcattta agacgttca cactacagg gctaattaaa tgcaggacta gcataaaaagt
ttttgggggg ggggtggggga gaatagattt ttaacataa ggagtcgata ggnaatctt
aataattttt cccccccaaa taattttaaag gtgcttaag ggccgcggga tcncgggggg
ggtttcccccc tcttttacc ttattatgga nttaaccata ttcctnaaaa atggatttaa
atccccattn ccccttcagg ccncagggggg gnaagggggg aaatttgctg tggggggcccc
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cggggccctg 549

<210> 158

<211> 378

<212> DNA

<213> Homo sapiens

<400> 158
ttttttacct tttggcctga attttttttt aatttttaaa ttaaacacca acgaaaacct
cattttgtct aagcagattt aagagaaaaa atgagctata ctgatagaag ctgaaaaaaaaag 60
120

aaattactgt ctacacgact aagaaaaaga ccaagcaagt gcaatgagta ataagttata 180
gaaatagcag caactccaca agaaaactgat aagcatctgc cactatcaac tctatgctag 240
atgccaggca tacagtgaat gtgatgtgcc cacttcattc aagaagctca tcaggtggga 300
agaccaatga ggtatcagtt taaggtatga ggatgaattt tataggaaag caggcatccc 360
aatgttccc ttatttcc 378

<210> 159

<211> 307

<212> DNA

<213> Homo sapiens

<400> 159
ggtcatgctc tggtgcccag gctggagtt ggtggcaata tcataggttc actgttagcct 60
tgaactcccg ggctcaagtg atcttcctgc ctcagccttc caagtagctg gcactgtgtc 120
tgacaaagtt cacaactttt tttgtggtca caaagctttt cagcaggagg cagctatttt 180
tggtaccttgc ttaagatcta gtatatcact atacgagacc ctacaaaaac acacaaaaaaa 240
gcaatttcctc atttactatg ttcaaggaaa cgccatggaa ataaaggtaa attttaggg 300
caaaaagg 307

<210> 160

<211> 290

<212> DNA

<213> Homo sapiens

<400> 160
caagatctct attggctttg ctgggttcc tggttccccct ctaaaaaaat ctaacttcta 60
aaaacattct gctcagacaa ccatttcaag ttataggaca catgtctaa aggaaaccat 120
ccaggagaaa catttgcaca agtttcctta tgacttgaga ttgcatctga gaagggtgca 180
gggggagaac agacagaaaac agcccaactct gtgtgcagaa cgccgtgtgt cctcagtgtt 240
tctcggggcc catagctcat tagctgcagt tggtatgaag cctgcaacct 290

<210> 161

<211> 246

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 161
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agaagggttag gagttgtccc cccatccccg tgcacaggc aggacatgct gggggctcct 120
ggagggagag gaggatgggg tcagcctagc ccctccacc ccagattnt gcgagggccc 180
ccaggatgga gggtggtggg gggatggca gacccttcag tccagggtag ggaagctgag 240
attata 246

<210> 162

<211> 344

<212> DNA

<213> Homo sapiens

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<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 162
gcttgcgtttc ttatgtncac acagccttgt ttatagtaaa ggtgaatgac      60
atgattccac tttacacgt aataaaaaaa ctcatacgagg actccatcg ccaagcggtt    120
tatatggcag atgagctgtc acaaatactgt tgcgtgcgtc cccgtgtact cagctaattgc   180
taccgggtt ggagcgcaca ccgagcccag ccacctttc catacctggc agagggaagg   240
gagtggagg accagaaggg agtaagantc aggaaaggaa cagtttattt aaaggaccca 300
gagcccaacc taggaaggcc agtggcccat cctgaaatct ctca 344

<210> 163
<211> 162
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 163
cagaccctcc ttatattcct gancgatgtc acagcagccg taaaagaaaa ccagatgacc      60
ccaaaccacc tggccgtgtc ctttagcgcct tcccttttc atctcaacac cctgaagaga 120
gaganttcct cttccagggt aatgcaaaga aaacaaagtt tg 162

<210> 164
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 164
gcagaggcct ccactttta ttccagttgt actcatctgt cccactgtgc aaatggagtc      60
acacgctcac tcaattctga gaggcctggc aagnaaagag aaaagatgcc cagagcagtc 120
tgttagagtt gcattctcg actaatatct ttacagtctt gagaaatcac tgtcagggtt 180
tatttaaaat gcagattttt gaaggataaa ttttacgact aattttttt aataaactat 240
gcaggattgt tatttagaaat ttttgccaaa ttttagatct tcagggatgg aaataattgg 300
ccttctgtc acagtcttct gtttataagt gggtaaagaa agttttctt ccagaaaaat 360
acaggcagaaa atccgatgtt tctgatagga gtttaattgtg gagatgtgcc agagacagca 420
gcttcgtgga tggtgacacc acaatgtctg t 451

<210> 165
<211> 306
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 165
 gcatgttattc ttcaatttcag ggtcctggta atcactggaa ccacaagttc aaatgccatc 60
 tagaccataa ggacttcttat aaaacacaaaa ccacttcatc atcaacaaaac ctatttgct 120
 actagaacctt ttaaagcaag gctgcaaact attcaagtaa acaacccctgt ggggtgggtg 180
 acatggaccg agagctaaca agagaacact ggaatttagct tctcagtttc aaaatangga 240
 cctaaaggag tttgcgctat aggagaagag ttgcgttgcatttttaa tgggaaataa 300
 attttg 306

<210> 166
 <211> 443
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 166
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 ggacaatatt cacaggaaat tgaaattatt attctaacac ttaaagtgaa atcactgaaa 120
 ctgttttcat ttacctgaag atttaacaa acaggggcat gcaggacaga gtacctcagc 180
 ctctgtaaat gcctggaaca ccccaactcc caaaggaagg cagagcaggt gcacatttcc 240
 agagaggaat tgcaaaggat gcccacagaa acaggttaatt cattaccaga gaaaagtccc 300
 ttagatgttggaa aatctcatgg ctgaaggcag aaactcaatc cggtttagaag ctnagtcaag 360
 ttaatccana tggaaagcaac ttaaatttagc ttttctttta aaagagacac cttagactggg 420
 tccccactcat tacctgccccat att 443

<210> 167
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 167
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 aaggcatttt gtagagaatc tgtctgggaa gagggatggg tactggaggc acatccgggg 120
 caggttaggag acctgggtggc caagactggg atgggggtggc accatggggg tatcgaggac 180
 gtgcacatctgc tccagctcca tgtggcggtt nanncngcngc ancnngcnggg gctncangct 240
 cnngaacncc nttaanttgt tctcggcgaa ctctcgaact cgctgtgcac agtgggtgggg 300
 gtnnaaatcc cagtaanggt cgctatngct ctccccatca ctngctgaga taatgggtaa 360
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<210> 168
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 <212> DNA
 <213> Homo sapiens

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 agttaatttt caggctgtaa aaactacatc tatggcacca acatggaatt taaaaacaag 180
 ttggatttca aagtaccca aatgcaaaa actgaaagta ctatcaaacg ggtctccaaa 240
 gaagtcttagg atgctgttat gcaggcctgt ccataaacct ccctggaccc tcaggtgcta 300
 cctacaggcc tctgctcatt tcccataaac attacctcac catcccagga caacaaagga 360
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 catggggcca gattcg 436

<210> 169
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 169
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 tacatgatac aaaggaaatg taattttaca aatgtgaaat gattgatggc tacagcaatt 180
 taacaaaata attaaaacat tgtatgttta aaaacaagaa tatcttaaag ccaattatct 240
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 gctataaatt tagagaatat ctttcaactt taaagttata gtaaaataga attagttaac 360
 caagactggc ttcagaggga accaagttca gggattcaact tacagggtga aaagaaaaatg 420
 atcaatcaca acctacgaag tcatacaaag gaagactaga c 461

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 cacaacctcc tgaatacaga agcagttgtt tttgtgtttt ctgctgatct cttccacttt 240
 gtcatattct tccatctggt ccaagtagtt agatgctggt cctctgactt gtttttttgg 300
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<210> 171
 <211> 428
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<220>

<221> misc_feature
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tcccagaagt ttttctatgc ctttatttat taatgtacac ttgtaaaaca gcatttgggt 180
ttgctgttat actaatggcg ttataacata catacattgc agcttttt tcatttaact 240
gagcctcaga aatccttcc atatatacat gttagatctag gccattctt ttaaagctga 300
gtaatgttcc atagtgtggg cataataacct acacttgtgt atttccagta agcctttaca 360
gatactacta ccnntttcc tttaaaaatt aaaaggtata atattaataa aaattccccg 420
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<212> DNA
<213> Homo sapiens

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agaaatacat atagaaacca attattctag caccattcc attcttccc cagggactgc 240
aacatcatct gtcataaaatc aactttcat gtctgtgtga atttggttt gatctcccta 300
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cacagaaatc ccaattggaa tcctaggtta aaattggtgg tggtca 466

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<211> 406
<212> DNA
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<400> 173
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ctgattatct gaacataactt attttaaaaa gacatccata gcacactcta ttctttatgt 180
gtaaggataa acaatccaag catactgtga agatcctgtca acatatacg ttatgacttt 240
ggttaattt tctattcccc agtcacatt gcttgcggc gtttcctac cctgcatttt 300
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<212> DNA
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<400> 174
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gcttgaatc tccttgcattc ttgtatctgc tgcctcttctt tgggataacct gggagttttt 180

cctctgacct	cgtttcagt	agaaaatgtat	tttccatgag	aatctggtt	cccctggatg	240
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gcacaaaatc	agtggcaat	atggatttca	tttaagctt	tcaattctcc	tggattaaat	180
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tcctcaatga	ttcaactggt	ttatcttaca caataagcg ttggtcagtt tcaagataaa	240
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ctaaaggata	atgaggaagg	ggctccaggc taaatgcaag tatccttgat taatgtttc	240
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tcttaaagag	catacactt	ttaatgatcg tgtgtgtgtg tgtgtgtgtg	180

tgtgtgtgta	aaccctttaa	aaagagattt	tggaaactga	attctggaa	cgtttttttt	240
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tcggaggagg	gtgtgggana	gcttgaagg	ggacaaccac	tgcngacacc	tggagggag	240
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cctatagtca	gtctggaaag	ggctagaaaag	aaccaaccca	tttgtgtggc	ttccgtatct	360
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gagaagacac	ccagtgagga	ctgacgggag	aggagaggcc	agggcagcct	caggtacagc	480
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<211> 310

<212> DNA

<213> Homo sapiens

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<211> 447

<212> DNA

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<223> n=a,t,g or c

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<210> 193

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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	tacacacaga	cctagtaatg	gtctctgtg	ctgcaaggag	agnaatatna	agctcaacat	360
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<211> 395

<212> DNA

<213> Homo sapiens

<220>

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 gctatgcgaa anagancaac cagccagatt cggcccacgg tttaaggcca gtttaagcct 180
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 <212> DNA
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<220>
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<220>
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ctcataacgt	cctttaaaaa aaataataac taaaaggaa aagaaagtgt caattgcaat	180
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 gagaatggtg ccatctgcata taactgggtt atagacgatg gtctgccctt cagcagtctg 180
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<211> 403

<212> DNA

<213> Homo sapiens

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<211> 393

<212> DNA

<213> Homo sapiens

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 actaaataaa catggggac tggaatctcc ttggagatac tctggaggaa gttcacatcc 180
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<211> 395

<212> DNA

<213> Homo sapiens

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<211> 252
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<213> Homo sapiens

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aaatccacaa aaaactgtca catgacagag gccagaatgg agctgatgca gctgcgtcat 180
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<211> 429
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

<400> 209
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<210> 216

<211> 454

<212> DNA

<213> Homo sapiens

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<210> 217

<211> 387

<212> DNA

<213> Homo sapiens

<220>
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<210> 218

<211> 481

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

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<210> 219

<211> 478

<212> DNA

<213> Homo sapiens

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		ttttttttac	ttaattttt	cttaatttata	aatggggcca	gacatccaac	aagcaattat	360
		tacttaattt	aaaaatttca	ggatttaaa	atatatgaaa	actctattta	caagcattta	420
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<210> 220

<211> 623

<212> DNA

<213> Homo sapiens

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<210> 221

<211> 457

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,t,g or c

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<210> 222

<211> 325

<212> DNA

<213> Homo sapiens

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<223> n=a,t,g or c

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<210> 223

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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<210> 224

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<211> 433
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<213> Homo sapiens

<220>
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<223> n=a,t,g or c

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<210> 225
<211> 189
<212> DNA
<213> Homo sapiens

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<210> 226
<211> 222
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 226
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acaatgggcc aggtaccccg catgtaaaat caaaatntaa gggctttttt aagggctggaa      180
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<210> 227
<211> 570
<212> DNA
<213> Homo sapiens

<220>

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<221> misc_feature
 <223> n=a,t,g or c

<400> 227
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 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

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 <211> 388
 <212> DNA
 <213> Homo sapiens

<400> 229
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<220>
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<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 3058

<212> DNA

<213> Homo sapiens

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He was a man of great energy and determination, and his efforts were instrumental in establishing the first permanent settlement in the area.

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<211> 2393

<212> DNA

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<211> 798

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<213> Homo sapiens

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<211> 2685

<212> DNA

<213> Homo sapiens

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<211> 1857

<212> DNA

<213> Homo sapiens

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<210> 292

<211> 816

<212> DNA

<213> Homo sapiens

<400> 292
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<211> 1475

<212> DNA

<213> Homo sapiens

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<210> 294

<211> 1283

<212> DNA

<213> Homo sapiens

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<210> 295

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 295	cgcccgacg	agcccgacct	ttccgcccgc	ctcaaggaca	cccgcgcgca	gtacgagaag	60
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	ctgaccgaga	gcccgcgcaa	gaacccgang	ccgtgcgcgc	cgccaaacg		168

<210> 296

<211> 304

<212> DNA

<213> Homo sapiens

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	ttttttact	gttcttcctc	agacattcaa	acgttttg	atcaaagaag	aggagtatga	180
	ttctattata	gtatataact	cggcttcat	gcagagactg	aaaacaaata	ttttgcagta	240
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	cacc						304

<210> 297

<211> 701

<212> DNA

<213> Homo sapiens

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<210> 298
<211> 1953
<212> DNA
<213> Homo sapiens

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<210> 299
<211> 649

<212> DNA

<213> Homo sapiens

<400> 299
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<210> 300

<211> 4003

<212> DNA

<213> Homo sapiens

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<210> 301

<211> 4003

<212> DNA

<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens
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<212> DNA

<213> Homo sapiens

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<211> 278

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 307

<211> 491

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,t,g or c

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<211> 260

<212> DNA

<213> Homo sapiens

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<210> 310

<211> 313

<212> DNA

<213> Homo sapiens

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<210> 311

<211> 532

<212> DNA

<213> Homo sapiens

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<211> 263

<212> DNA

<213> Homo sapiens

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	gcaccccaag ctgcagagca ccaagcgctt catcaagtgg tacaacgcct ggaacngaa	180
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 acccataattt aaataaaaagg gcaaaaatccc ccctgataaa taccatgtttt atcatggcac 2040
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<210> 325
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 325
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 agggaaatcatg ctcagagtgc aagaagcttc cttgcctgag atcacctaga aaggaaacct 180
 cagagccggc aactgaatct tggccctgt gatgtcaagc ccattgtctt nccactncag 240

aacatggcct ctagattaat gccaccgatt caggaacacc tccgacagtt ttgaaatacc 300
cccgttgc cttgtttgtt ttttccttct gggcttcttc tattacagtc tcatttcattg 360
ggaaggctct gtagggcca agggccagga ggctggatta ctggacacgg gagtcccaat 420
gtcaggattn gccancattc agatngctt ggggggtt 458

<210> 326

<211> 1574

<212> DNA

<213> Homo sapiens

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<210> 327

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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 gtccttagtgc ttccgaatca tttaatggca ttgtcgata tccttttaca tttcaattgc 420
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<210> 328

<211> 386

<212> DNA

<213> Homo sapiens

<400> 328
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 agtggacgtt aattgtcagc caccagactg tcccgccacc tacagagaat gtttcacagt 180
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<210> 329

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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 tggcctt 427

<210> 330

<211> 327

<212> DNA

<213> Homo sapiens

<400> 330
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acaatcgagg	gcagctgaag	tcacacatga	aagaagccat	gatcaagctt	ggttccact			360
tgctctgctt	cttcatgtat	ctttatagta	tgatcttagc	tttgataaaat	gactgaagct			420
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ggaacaagga	aacagaacca	cagaataaaa	tacattggtt	aacatcagat	tagttcaggt			180
tacttttttg	taaaaagttaa	agtagagggg	acttctgtat	tatgctaact	caagtagact			240
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cttcttcctt	aacatttcag	ttggagttatg	tagcatttag	caccactggc	tcaatgcgt			360
cacctagg	agagtgtgac	caaattttaa	agcatttagt	ctattatcag	ttaccaccat			420
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<210> 334
<211> 429
<212> DNA
<213> Homo sapiens

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agctacgcgg ggagggcgccc ccattguaaa gtgcagttc tccgcggagg tggcggtggg 180
tcagtggcag agggccatgg ttccatgtt aaggaagcgg acgtgcatact tggctcaat 240
gtcgatcccc tgccagatct tcaggaagtc ctgcgaaggtg atcccccttgt acacctgatc 300
aggctccatc ttgccccatg cacacgtgg cccgcctccat catggccccgg tcggcgatgg 360
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atttcgagg 429

<210> 335
<211> 552
<212> DNA
<213> *Homo sapiens*

<220>
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<223> n=a,t,g or c

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gggcnagcccc gg 552

<210> 336
<211> 325
<212> DNA
<213> *Homo sapiens*

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		gggagaggag agaccaggac gcctcaggga ccaggcagat aatacaaata aatgaaacag	180
		gccaggtgag agagtacaag tcttgccaaa agaagaaaacc cctacttagt ttcaattgtat	240
		tgtccttctc tgaaaatgca gatcagaatt gccacacatt ctgaccgatc gagagaggcc	300
		agaaaattcta attttaactcg tgccg	325

<210> 337

<211> 401
 <212> DNA
 <213> Homo sapiens

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 gagcatggga gaatcgcttc cattagttt ggacagagag atttgcttt ttacagagta 180
 aatcagtgtt caaatagata cttcctcaaa tatgtcctt ctacattctg aacagccaa 240
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 ctccccagac atgagtctaa ggacccaaag tgctcaetcc tttactgctt gttaaatgtta 360
 atgtggggag gctcagaact ggggctgacg ctactgagag c 401

<210> 338
 <211> 154
 <212> DNA
 <213> Homo sapiens

<400> 338
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 acagtatacc caaacatcc acttgaaat tctttggctt cccatcagct ggaattaatgt 120
 aggtactgtt tatctttagt atcatgtatt tgtc 154

<210> 339
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 339
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 ccctgccagc ccagagtcct tagtcggata atgtatcaca gataacaacag tcgagcaacc 180
 acgagagcgt tagtgcgaca gaggctctg tcctccctct tctcaaagtc ccatgattct 240
 gtcaaggtta tattgccaat aatcatttcac atttcacgtt gtttagaca cgcaggttat 300
 tcagacagac acagacaaca aaacaagccct caaagccaga aaaaaacaaa aaaaaaccaa 360
 atgaaacata ggtataaaag gtaaaatata tgtacaaatgt a 401

<210> 340
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 340
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 agaagtgaga tcagggcgtt ggtgtctgca cccccacagcg catgttggct ggaacacgcaa 180
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 catggtaatc gtgagcaggg tagatcagac agtctctgg aagtgtgaag atctttcat 360
 ggaccgagtg gtaaaag 376

<210> 341
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 341
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 ggacacctagt ggacacttcc gtgggcactg ccagccgcct ggggggcaca taggatccca 240
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 ttttcttgtg gtctttggat cggaagtggg tcttcagggtt ggtggaatcg atgaagtacc 360
 tcgcgcaggc cagacagcgg tg 382

<210> 342
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 342
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 atgatggcac atctgtatga ggctgaggca tggggggcag tgtgaagaac aggggcaggt 240
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<210> 343
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 343
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 ggcagcagca ggagttagag gggtccctt gtccctgcccc tttgcaaggg ttcaaggctg 180
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 cttccataat gtctatagat caataacagag ggaagaaagg aggacaggga gctgatggaa 420
 acacagcttgc ccaactgtac ccagtcffff aacaagc 457

<210> 344
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 344
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acggtgctca ccgccccgct gctggacacc cagtgagccg gag 283

<210> 345
<211> 404
<212> DNA
<213> Homo sapiens

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<211> 317
<212> DNA
<213> Homo sapiens

<400> 346
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tgatgctcctt ggggcccc 317

<210> 347
<211> 265
<212> DNA
<213> Homo sapiens

<400> 347
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tttcacaact aagcctttgg ccaaaaaagt catttagcac atctttaaag atcaataaga 180
aatggatttt ggacattaaa aagatcaagt cactgaatta aacagtagca acccccattt 240
atctagaatc ccatagtgct gaagg 265

<210> 348
<211> 405
<212> DNA
<213> Homo sapiens

<400> 348
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ttggataaat tctattgtaa caatttcgtt ggtcattttg ggcataaaaa tttttttgtt 180
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<210> 349

<211> 380

<212> DNA

<213> Homo sapiens

<400> 349
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<210> 350

<211> 355

<212> DNA

<213> Homo sapiens

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tgacagagga gtaagtttagg gaaataaaatg actcagttct tcatacatgc aaaggtaagt 180
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attttttaaa aaataaaatca ctcaataggc ttaagaaaaa tacttttagtt catagttcat 300
tgatctgacg ttttgattta agatcagggg atgaatccag gatgaaaacc aaaga 355

<210> 351

<211> 481

<212> DNA

<213> Homo sapiens

<400> 351
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gttacgatag tctggagaga aggcttgct cccatttgg cttgtgtaat acctgggttag 180
tttctcttga gtctgtcaag cagagaacaa gtttataaaaa gttccattta tacatacatg 240
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<210> 352

<211> 366

<212> DNA

<213> Homo sapiens

<400> 352
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gtttccatc ttccctcctg ttctctccca tcctccaaag atgtttata ttaactgcta 240
tgagatttat ttgcgggtca cgttaatacgg aggacagcag ggaacaacac aagatttacc 300
atgccttaggg gatgaatggc aaacccaact ttggctaattcatttgcgaa caacttggaa 360
gcgtga 366

<210> 353

<211> 534

<212> DNA

<213> Homo sapiens

<400> 353
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tctgatATCT ggaaccaaag ggcaaggaaa ggtcctgggg ctgaagtggg gacaaggggc 180
acaaaaaAGC cagtgggggc aggtgggtct ggccaagggtc agaggcggat gcaacaggcc 240
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ggtccggatg ctgttctgtc tctgtttgg aacatttttt tcaggacagt 360
ctcaaaggct agctgcaaca ttggtagagt ccagggtctga ggtctccagg aagagcagtc 420
cattgttttca agcgAACATT cgggcctct cagtgggcac ttccggggcc tggctgaggt 480
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<210> 354

<211> 318

<212> DNA

<213> Homo sapiens

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gcaatTTTTT gtggcaggg ggtggatctt acaaagcaca ttctcaatgg cgagagaat 180
attacaaaat accttcttaa gggtgcgggg gtgcgggcgt ggggtgggtg gggagaatat 240
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gggtggggca ggaacaaa 318

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<211> 601

<212> DNA

<213> Homo sapiens

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aaaagtaaaa acaaagtgtg catttcctt actacgttta gtcaggaata tgcggcatt 180
ttattggta ctgggttct catacaaaca gatataat cacttttaag agaaatgtac 240
acaaggaagt aaccatagta ccacttatta gtggggccct ctgggtacat aaatgtgtcc 300

tcccaaata	tcatacataca	ttcaatgtat	tggtagggc	caaaatccct	aaaccacctc	360
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tctcagactc	tcttc	atacc	cttccccacc	tcacataaga	aatatgtgt	540
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<210> 356

<211> 4003

<212> DNA

<213> Homo sapiens

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acagt	gggtt	aaaagca	actgg	cgct	ccat	360
ccgtt	tttcat	gac	ctgt	tgat	cgctt	420
taact	tctt	ctac	agcata	acata	aggaa	480
gga	agac	atcc	agatgt	ctat	gat	540
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gtt	agac	aa	aa	ttt	gtt	660
tata	agac	aa	aa	ttt	tttca	720
aa	cc	ttt	cc	ttt	tttca	780
ac	tt	gtt	cc	ttt	tttca	840
caaa	ataa	ata	ttt	ttt	tttca	900
acta	ataa	ata	ttt	ttt	tttca	960
ctt	ggat	ct	tc	ttt	tttca	1020
gc	ttt	ca	tc	ttt	tttca	1080
aaaa	acaa	aa	ttt	ttt	tttca	1140
ctc	gtt	ttt	ttt	ttt	tttca	1200
ga	agac	agg	gtt	ttt	tttca	1260
tt	ataatt	ttt	ttt	ttt	tttca	1320
agg	ttt	ttt	ttt	ttt	tttca	1380
cac	caat	ggc	ttt	ttt	tttca	1440
tgg	cacc	aga	ttt	ttt	tttca	1500
tgt	ttt	ttt	ttt	ttt	tttca	1560
tgt	ttt	ttt	ttt	ttt	tttca	1620
cat	gtt	ttt	ttt	ttt	tttca	1680
ggc	ttt	ttt	ttt	ttt	tttca	1740
tgt	ttt	ttt	ttt	ttt	tttca	1800
tct	ttt	ttt	ttt	ttt	tttca	1860
gtt	ttt	ttt	ttt	ttt	tttca	1920
tgg	ttt	ttt	ttt	ttt	tttca	1980
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<210> 357
<211> 4003
<212> DNA
<213> Homo sapiens

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<210> 358

<211> 237

<212> DNA

<213> Homo sapiens

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	acccagttc	tttaagatt tagcattta	tttagtctc	ttatcttagt	120
	tgtacccagt	actctaccta	ctacagacta	tttaacttac	180
	tgctgaccag	atttataggg	gacataactg	tttatattat	237
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<210> 359

<211> 195

<212> DNA

<213> Homo sapiens

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	cataagttaa	acaca		catacattat	195
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<210> 360

<211> 358

<212> DNA

<213> Homo sapiens

<220>					
<221>	misc_feature				
<223>	n=a,t,g or c				

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	tttcccaatt tcaga	taact act	taca	acttgt	tttttaaga tagattc	120
	tttagaagca aatacattca	tagtgt	atcccc	aggaga	aaatctaa	180
	ggtcattcag	tccctgccag	acagacaaca	gcatcaa	atgtcaac	240
				agct	ccagctc	

tgcaagctaaa gggcagtgtc gggcagcagt ggggtatagc atattaccaa agatgagacc 300
agcaaaaaca acaatgtgta taaagcttta anttaacatg atcatataga gcgctcag 358

<210> 361

<211> 311

<212> DNA

<213> Homo sapiens

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cttaggcaac aagaaatgct gagtagtatt attacatatt caaaccagac ttaaacttca 180
gaaacagaag gccagatgag tgacctgtat cacaggatat gacaacacat cacctatctc 240
caaacaagaa aaagcatgat tattaagttt atctacacca gcttatttat tcaaatttgc 300
tcttcttatt a 311

<210> 362

<211> 315

<212> DNA

<213> Homo sapiens

<400> 362
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gaacggaaag gtgcaaacta gcagagtcaa tactggtaac cagaaggcac taatccaaac 120
acataaaattt caaaagctgg ttatattatg gaataccata tatactggcc tttgccagtt 180
tgggatttct gcaatagcaa taaggctcggttcc aattataaca aaaaaaaagat 240
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<210> 363

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 363
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acacctgnng tacaaggca ccttgctagg cgctagacag ctaactctgc tgcagccact 180
ttgatcctag ccttggggcc agggatggca caggctgaat ggaaggcgt ggacttcagt 240
cacacaggag tcgcccagt atggct 267

<210> 364

<211> 247

<212> DNA

<213> Homo sapiens

<220>

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<221> misc_feature
<223> n=a,t,g or c

<400> 364
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ttcagaagca ggaaatttta gttgttgcga gagaggtgtg tcaaggacac agtcaaaggaa    120
gccatgcgga catgggggtgg aaggcttnt ccaacactgt tacaacactt ttgtaaatga    180
gcaaaacatc tttaaaaatc cttataaatt cttaataata tgttacacat ttagagacaa    240
tatttac                                         247

<210> 365
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 365
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atgagaaggc aggtgtccaa cagcttcagc ttcacccagt gccccccaga caaataatga    180
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gctcgccag ccccactgca tccctcaca tgatgatacg aggctctngc actgactcgc    300
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gacgtcctnc ac                                         372

<210> 366
<211> 501
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 366
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ctcccagccc ccaggctgnc ttttccctcc aactgtcagc tgcttagctg ctcatctggg    180
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gcacaggaa atgagggaaat ggggagagag ggaggctt tgggtccaag ctggggcatc   420
ncttaaaaaga ggtttaaggg tntcgaagga ccncagagaa caacattctt cntgcgagat 480
tttaagagg gagtttctn a                                         501

<210> 367
<211> 231

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<212> DNA

<213> Homo sapiens

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taaatctggt atattaaatt gtgctgtaaa tagatttgta tattttctt tttgagtact 180
atgataggtg aaatggtatg actataaaaa ggatttgtt cttttgtct c 231

<210> 368

<211> 292

<212> DNA

<213> Homo sapiens

<400> 368
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gtgatatttc catagcgtga tttaaaata taataatgtt gatatctgag attacactca 120
cttcagttga catgagtttc atcatatata gaaaaagtat caccccaac taaaaaaaaag 180
taaaggtaa aaggtggcac actttaaaa tacttggtgg ccaaggaaag gtatatagt 240
aaagttgtaa accatgtgta tgttctcata actttaaatg tgaggccaca tg 292

<210> 369

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 369
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tcctcacaac agccctgtga ggtaggcagg gcaggggta atgttcccatttgtacagat 120
gtggagactg aggcccagag aggccagtga cctgcttggag gccacacagc aagttagcag 180
cagagctggg naccagagggc tgggtgggc cccacctcca gcccctggct ctntccactg 240
actgtgtgt cccccaggag gaccggcc tntgtccaga gtntcagcca canccaagcc 300
aggntccac cccttgcgtt ggggccggcc tgggaagccc cagaagacag gtttcccacc 360
cccattcggg aagac 375

<210> 370

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 370
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cagaaggaag gagacacccatgacgaccc cagttatgcag tctggacat gtntttcag 120

anctgattct gtgaatattt catttttat gggtagggc acatacatat atatttttt 180
ccttcctttt gtcatttaac atcctatagc ctaaatgttc ttgaataata ctgacaattc 240
tgtctaagta tcattttaa taggttgta atatcattgt gggctggccg tgggtggctc 300
atgcctgtaa tcccagcaacttgggnaggc caaggtgggg tgggntcatc tgagggtcag 360
ggcgttcaag accacggctg ggccaacatg ggngaaaccc tgtncttcta ggnaaaaata 420
ccacaaaaat tnggcccc 438

<210> 371
<211> 391
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

<400> 371
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tgcaagcgcc acaggcagag tgagggctcc tgaggaacct caccggaaat tccctaaccg 120
gccgaggacg canccccagg cccctctcag gtgggcattgg cagtcggc agcacccct 180
ctgagcagcc tgctgtgggg aagaagccgg gccggaaagcc tcagtcgtgg tgccagccca 240
gctcatgctc cccggcccgaa ggccccccagc ctntggaaag cccctgcctn taagggacag 300
ctcgtgaaga cacaggaaca gtgggtgggg gtgagggtct agggaaattgg ggcagaggt 360
ngcttnagca canacctgac ttccctggga g 391

<210> 372
<211> 404
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

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atatggaaaa taatcttcat aagttccctt tctcccaaattt agtataattgt aaatattttt 180
atacaattaa agatgggtca gaaaaagaat tctacaagaa gtaaccctaa atgaacccta 240
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ttgggtaatgt ctggttcaca ggnaatgtat gttctaaaggc gctgcaggc tggngagag 360
tacccgacac ccctctctgt gggagggccn ctttctagtn aatg 404

<210> 373
<211> 262
<212> DNA
<213> Homo sapiens

<400> 373
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caaatgttta atatctcctt ccatgaaaca gcagcagcaa gagatagcaa gtgttcggaa 120

gtctcttcaa tccatgttat tctgatgact ctttgaagaa agaacttgaa cctcctgcac	180
agggggattt ctttcactca tagattcccc taacttcatc tcctctttc cttgggctat	240
tagtcagtca atatgcttgt ga	262
<210> 374	
<211> 478	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<223> n=a,t,g or c	
<400> 374	
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taggccttca actccttcat ggtctcgatc atcagcgccc tcagttctg ggtgacctgg	180
gagctcgagc agctcctcct gcacctgctc agacagtgtc tgccacccagc gcaggtaatc	240
ccaaaagcga cccagtgcga gttcccagcg ctggccgcgc tgccactcgg tctgctggcg	300
cagtcgnggc tccggctctg tctccaccgc ttgctccacc ttggcctggc atcctgcccag	360
aatgtgacc agcaacgcag cccacagaac cttcatttc ctgcctgtga ttggccagtc	420
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<211> 429	
<212> DNA	
<213> Homo sapiens	
<400> 375	
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cacgaatagg catttcacca tatgtacatg ataaatggcc aatcaaaaata aggaatgggg	120
ctcattctgc tggaaattaa atacattcaa acaagaacag agatccatta gcaaaaatgtt	180
taaaaataat atcacagggt taccaggggt atgacaaaaa tggacacttc catacacact	240
aggtgaatat attggtaaaa atagttcaga taaacatatac accatgtatg taaaagtatt	300
tatcatcaat gcattatttg tagtagcaaa aacaacaagc agccttgtga aaccagttt	360
atgtcctcag caggaaatta ataataattat tgtatattca tgaaattgac accatgtggc	420
cacacaaat	429
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<211> 503	
<212> DNA	
<213> Homo sapiens	
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agctttcttt ttccttaggg agaaaaaaaaaag gaacaagtct catabaccca aataagcaat	120
ggtaagggtgt cttaacttga aaaagattag gagtcactgg tttacaagtt ataattgaat	180
gaaagaactg taacagccac agttggccat ttcatgccaa tggagcaaac aacaggatta	240
actaggccaa aataaaataag tgttgaaag ccctgataag tgcttaataa acagactgt	300
tcactgagac atcagtacag atacatcttgc tttaaacaac acagaagttc ctgaaaagtt	360

ttgtgtaaat gatataacca caaacattac caggagagct tggtaactg aaagaattcc	420
atggcgaatt ccttggtga acaactactt tcactttgg taaatccagg tatttgcttt	480
ttataaggag tttacctagt tgc	503
<210> 377	
<211> 467	
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<213> Homo sapiens	
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<223> n=a,t,g or c	
<400> 377 ctaaaattat ttatattttt ataattttct aacacatggt gtttagaaaaat gaattttggc accgtgatta agaatttctt ttcaagttta acctttacat taaaaacagt agtacaata aggatatttc aaccttactt agagaagtga taaancatca agtcaacaag tattttgtt ggagaatttt ttataagcg ggatagaggg aagttAACAT agacactcg aagaataaaaa tggaaattat gccaggaaga taaaaaaagca aataaccctc cccccaaaaa aagaataagg agcgagacaa agggcaaaac ggaagaagca aggctcaaca actttgtttt cctgatataa aattcaagta cttaaaaagt ttttaaaaaa ataattaaat gcactactca tctcaatgaa attttcgtt ttccnatttt ccagaacttt cttaaaaagg aaaccag	60 120 180 240 300 360 420 467
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<211> 482	
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<221> misc_feature	
<223> n=a,t,g or c	
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<210> 379	
<211> 252	
<212> DNA	
<213> Homo sapiens	
<220>	
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<223> n=a,t,g or c

<400> 379
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gagacanagg aaggagggtg gggaggactg aggcccaggg aaaccagagc tatggagaca 120
gaggcccttag ggaagaggag atggctggga ggaccngctg aggggtggc gaggcagaga 180
ggcccatccc ttgctgagag gagagggggc cggggcggcag gctctgcag 240
agaggagagg gg 252

<210> 380

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 380
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caactcaaga cccacaggag actatgtcac cagataaaacc cagtgttaga atccaatgtc 120
cagcatcttc aaccactcgagtggttgc tgagagacca ggtgtgtgtt acccacccaa 180
caagcacttt ccattttgg gtttgcacca gatgtttacc ataaatgaaa ggggtgggaa 240
aaggattata gttgacacca acataaaatta aatatccaat tccagcatat gtgaca 296

<210> 381

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 381
ctcttgagt aactttattt tggaggagtt ccataagcat taggaacata cataaaatga 60
cacaccactg ttgacaatga aaaaaaaaaac agcatttgat atttccagc ttttaagtt 120
aaaaaatgtat tcagttaaaa caaaacaaaa gtttagatat tttag 165

<210> 382

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 382
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gggttaagaag ggcctggtgg gaggagttca cagagcagac ggtgcactgg gaccagnaga 120

gcagaacaca ggccataact atagggcagg tngggcagga acggggtaa aaacgagatc	180
caagccagcc agatcgagg aggtgcgggg gcgtcgccc cttctttct ccccccaagg	240
tcacagtgc tgcaataaaa tatatatata ggagctagat ccgtcctctg caagggtct	300
gaagggtcca aaactccct	319
<210> 383	
<211> 250	
<212> DNA	
<213> Homo sapiens	
<400> 383 cttcatattaac cctttattac aagtacgct cttatagaag tataatgtgga cttacgtgaa	60
aaaatcaaat gtatccaaga ataaaaaaca cagcacataa agtagtataat gcattccagt	120
gttcgcgcca gagacggcg ggcggccaaat aaaagctttt ctaaaacggc ctgactgggg	180
caggcggttg cgaacgggtc cgggcctcag gcacagtgtg gggccgcct gcctcctccg	240
cggcccgccg	250
<210> 384	
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<212> DNA	
<213> Homo sapiens	
<400> 384 ttgggttaca aaagggtgtct ttatttgggt ctgggttaaa attaggcact tggccacgag	60
cagcagctt aatatgaggc aagcagtcag gggtagcca tgcctgggt gggttgggt	120
catgaggcta caggcacaga ctgtccccag gtggacagaa gtttggagca	170
<210> 385	
<211> 281	
<212> DNA	
<213> Homo sapiens	
<400> 385 ttttttttcct caaaaggttt tattttttt catctttta aactggcaca ctgcctggta	60
tacaccgcca gtaggcattc agaaaaggttt cttttttta aatacacaat ttataataact	120
gggaagattt catttcagtg tttccaaaaa cattattcct ggaaagggtg tactctccca	180
tgactctgga taatagaagt ttttgttctga ttttttaagt cacotcagac agacactgga	240
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<210> 386	
<211> 139	
<212> DNA	
<213> Homo sapiens	
<400> 386 aatgcagccaa aagtgtat ttgttttct cagaaccata atcgatacaa gatgcagtga	60
ccaattcatt cctaaaaaca cctggctcc ttaagcggtt agaagacaca agttacatcc	120
agcccatcag ggagccaga	139
<210> 387	
<211> 285	
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<213> Homo sapiens
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 <223> n=a,t,g or c

<400> 387 tccagcccc cgcgtgcatg cggcagacat ttatttgac ttgtcacata gtagcctgtg aggtagccca ggatgaagat gatccagaag agggccacgc gcccagcacc ttcatggcga tgcccagctt gcccgtgcac agcctctggg agatcctgcg gcanntgagg cctcttctgt gctggacaca gccccttaggc tgaactccgt ccctgctgcc gtcctccac ctactatagt gggacgtggc tctcctgggg gctgcatgct ntgggggctn cagcg	60 120 180 240 285
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<210> 388
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<220> <221> misc_feature <223> n=a,t,g or c	
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<210> 389
 <211> 267
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<220> <221> misc_feature <223> n=a,t,g or c	
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<400> 389 ttcanctcct tttattgaca gaaatagaaa tttgtgctgc agaggcagta gtacctcaga gcatgagaag gtatgtcaatg gggctgacat gacaagccac aatgtctggcc aggggtccta ccatagtggg agaacaaaaaa ccacaaaaat agcaggaggt agcaaacatc cccaacaccc agtgtaaagca tttccatttgc cagagagctt ggccatgcatt ctttaaaaac ggggtcccct tcacagctgg gcagggtatc atgtcag	60 120 180 240 267
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<210> 390
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<213> Homo sapiens
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 <223> n=a,t,g or c

<400> 390 aaatttatata ttacatgttt attaagagca caacttttat gtaaaattta catttaatga aaaaaatcaa aaatatttac aaaatcttgg aagacagatg tgcattgttc taattacaat ccaaagtatg aaataacaat cctttaaaac tcacatttat tagagttgtg tttacaaatt ctgtttaaa gaggcagcta caaagtttat cactatatat aagcaagaac cagcttgcta gggtacattt cccattgaaa atctactggg tctctttac accatttaggg ggatttttaa atggggnaaa aaaaatcaat ataaaactcat atgggcttca aaattggtaa cctgtacccc nataacttggg gnatggaggg ctgtgg	60 120 180 240 300 360 386
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<210> 391
 <211> 220
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

<400> 391 atacaatang ntttattttag gatgtgtcaa tacagttaac atgggtgctt gtctttcaa aaagaagttc cattttctt gattccaaag tgcatttttc ctgaatcttc tgtgatacag ggcacatgtat aggtatgttag agagctaagc ttcctataacc aagttagaag tgaaatgact agtggggaaaaa catttaaact ttaatcttaa aaaaaaaaaata	60 120 180 220
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<210> 392
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 392 tttttttttt ttacaaattc ttttttatta gtcaaaatca caatcacctt gattaaaaag gatggacac tccaccctca gcagaaaaatg atacagttt tagaaaaacct ccccgccccct cccacaccccc aattaaaaac tacaaaaaaaaa tctccccctcc ttccctacga tgtcatggta gtctgactcc tccagtgcca ctgcagctct ggagtggcca gctcaccacca gcaccctccca ctccaccttggggagaggag ggatgctggt ggttaaggag gttaaaaacca ttagttccag taatgccagt tcccaaacat gcacttcctt cctttcccccc aaggcttggg accaagg	60 120 180 240 300 357
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<210> 393
 <211> 332
 <212> DNA
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<220>
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 <223> n=a,t,g or c

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tttgaaatt tgcttataaaa attttgtcac agggagcaac aatgttaacc taattattat 120
tcacttattt tcattttta aaataaatga ctataaataa ctgtctcttc agttaggatc 180
agggatatca taaaaacatc actagcgaga catattttag tattaatact gatgcaaaaa 240
ntgaaatagn gaccnaatat ttatatatat agcactatac atattttat atattgnata 300
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<210> 394

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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gcatgttgc ccacctgggg gcggatataa attacctcta gattgtccaa agcccagtct 180
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tcttccccag caatgcctac tgcaagctact tagtaacaac tagaggtgga gggtttccgg 300
ggaagcagtt aggatgagtt aagtgtgatg cacagggaaa atagtatcgt aggccstatca 360
aagggnccct ctgccctgcc tcagtggtct tgatttcttc attgggttgc atttgctctt 420
tgtgttggga tgacgc 436

<210> 395

<211> 364

<212> DNA

<213> Homo sapiens

<400> 395
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ctgtctggcc ctgaagaaag agaaatgtac ctggatatacg ctggccctct gagctggcag 180
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<210> 396

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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tatgtccatt ttctacgtta aatctgttaa ccaatactaa ttnaaattac atgatttcct 180
actaaaaata tgcaagttcat ataagcaagg gcaaataaaat cctcccttaaa acattttatt 240
ccttataat tgaggaactt aacagtctta atgggcttagg ttcttaaaaa atgtttatag 300
ggnttaaggt ttatthaagg ggaggccggn caaacaaaac atattgtaaa actaggtatt 360
ttcccgagg ccatttcct tctctccct tcttccccgc aaacnggggg ttttta 416

<210> 397

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

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aaattttaac cctaactaaa taccaaaaaa aagtgtatat atgttccaca aaggacatgg 180
gtaagaatgt ttatagcagc agtatttta atagccagaa actggaaaca agccaaacat 240
ctatctacag cagaagagac tattgtttat ttatacaata aactacaata tagcaataaa 300
atgaatgagc tacaacaaca 320

<210> 398

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 398
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cagtttgc当地 caggtatctt aaaatattgt ttacactcat ctctcttcag tttaccattg 180
ttaataggc ctaccctcga tcttttatt caatatgtt ataagaaac ctatacacat 240
agtatcacgt tatacatttt aaaantnttt tgacaactgt atat 284

<210> 399

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 399
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ccctggctgg ggcagcagga aggcatccag agagccctgg ccccagatga cccccaggc 120
aggaggtcca tgctctaagc cctagggcag gggccgcagt agcaggantt ggtcaaaagt 180
gctggtgaca gctgaggccg gcccctttc cctgcaccc tcctcctccc tgnatcaccc 240
cagcaggcaa ttccctgaga caggnctgg gtcctccaa ccagttgggg tacagtttg 300
gggccccant agggca 316

<210> 400

<211> 316

<212> DNA

<213> Homo sapiens

<400> 400
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ttttgtacaa aataattttt ttgaagttagg accggtgcca accaacacgg ctccctgctc 180
caggccggga cgccctctg ggaggaacgc gcggccaccc ttggaaacct gtaagtgatc 240
cacggtccag gtgtggaatg ctcacagttg tcactatgtat gaatgatgaa aaccctattt 300
ctgctactca gaaacg 316

<210> 401

<211> 349

<212> DNA

<213> Homo sapiens

<400> 401
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gttttatttc cattttgtgg aattttatca tggggtctgg cttaatgtg taactgacgt 180
gggtcactga aactcgatta tcccacctca catgcaattt tctgtcctaa gggaatagaa 240
aacttgggtt tttagggcac atgcagtaat gatcttaata ctgctttaca ctttcgtggg 300
aaggcagctg tcccacagcc tgggaaagga ccacatgctc agaaagggg 349

<210> 402

<211> 413

<212> DNA

<213> Homo sapiens

<400> 402
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acatagagaa cacagcatct ggatatgctc tcacaattat agtatcatgg actaaactag 180
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caacacatta tttAACGAGC aggttaaggt gaaactgcac gtatgctgtt agtcaagagt 360
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<211> 335

<212> DNA

<213> Homo sapiens

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<211> 275

<212> DNA

<213> Homo sapiens

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tatacaaatactgagtgactacagtagatcccgaggtaagataagtacat tctgggagaa 180  
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<210> 405

<211> 398

<212> DNA

<213> Homo sapiens

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taactgtatg aaatthaatt agattacgtt ttagcatttag tcagaagatt taaaaaatat 180  
gtaaaatgtt ttacagttac ttggattta taaaagaccc cattatttta acttttgtgc 240  
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gagttgctga agacatctta ctttcttggaa ttctactta aacatccatg tggtgcacct 360  
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<211> 459

<212> DNA

<213> Homo sapiens

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 <212> DNA
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<210> 410
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<212> DNA
 <213> Homo sapiens

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329

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gc 242

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the first time in the history of the world, the people of the United States have been compelled to make a choice between two political parties, each of which has a distinct and well-defined platform.

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<213> Homo sapiens

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ctgcagctgn aantctctag tcagttgggta tgcttcacct tctgccccac cccaaagggt 180
ttgggcaatn catggatgta gtagtttcg taattcgccag ggatcagtga tgggcactga 240
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<210> 481

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,q or c

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ctcacaggc agcaccacac gctccaggcg cacggctgcc acatacacact tgccgctggg 180
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<210> 482

<211> 391

<212> DNA

213 Homo sapiens

5220>

<221> misc feature

<223> n=a,t,g or c

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attcacacag tggatgttggaaaat gtcatacgacaa tgcaagtgcgtg cacagagaga tactcaatcc 180
caaactcctt tggatgttggatgc ttgtggtagg tcagttctag atgtcagcgg tttctctgaa 240
gttaagtcca aataaaaaaac agcacgtgct cctgcactct cccagcggag tcaggctcct 300
gtgcgcgcgc cccctctggt ctctcccttc cttctcggtc tgtctctgtc tactgcgtnt 360
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<210> 483

<211> 465

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,t,q or c

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tgtagcactg tcttcatcac agatattgct ctggggtagc agtaactatc tgattatccc 360
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<210> 484

<211> 301

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a, t, g or c

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		agcttgcagt gcacaggcag aggctctggg tcagtgcagg aagcagagtc accgccagtg	180
		ccttggatg gggatcacag aaggtgacct gtggctgcat gagccactgt aggactctga	240
		cctcagtgaa acaggatgac acaggcagct aggaattctg ggcagggca ggtnggcatt	300
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<210> 485

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a, t, g or c

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cgagggggac tcaccatgaa tatctgggt tgattccag atgtgtgttgc cttctctatt 180  
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<210> 486

<211> 341

<212> DNA

<213> Homo sapiens

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cagtaacatg	ccccccatat	ctctagtatt	tcaatgaaat	aaactcattt	tgaattcacc	180
ccgagttgtt	tttataaata	tttagacaaac	cacaaaatat	attccaaata	cataacattt	240
tacaatattt	ttcaaggcaca	gacaaataca	tactttactt	tacctacatt	gttttcatga	300
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<213>	Homo sapiens					
<220>						
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<223>	n=a,t,g or c					
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<223>	n=a,t,g or c					
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<213>	Homo sapiens					
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gtagcctact ccaatcccct caagacggaa tatctaacag tgtttgaaa acagggtcca	180
gaaaggccct gcccattaat tttaaaactt tctgaccatc aagaccattc tttcctgcctt	240
caaccaagca gagtcaccaa ggatcatgtg tttcaggggt tttaattgca ctatgtatg	300
aattaagtaa atgcctctgc ctggtagtt tgtaataggt ttatgggtt ggttctcct	360
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<210> 490	
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gccgggctcc ctggtagac ccccaggctc tctttagcac nagatggca ctttaccaac	420
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tcatttatct taaaggcaga aacttgtcaa cccaaactacg tgaaacagag aagcatgatt	300
tgcttaagca ggcgacatcattt gagttaggcc tctccacngg gagcttcccc gaccgtcagc	360
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<210> 492	
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<212> DNA
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<220>
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 <223> n=a,t,g or c

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 ctccccat gtttagttcaa cgaaagctct aaatccttgg cagagaacgt caaaaacagc 180
 ctcatttaag tggaaaatat ttgtcttcca ctcttctgct atgtcttgaa tcttgtctcc 240
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 ctgccttcat ttagaaggaa ttcttcttag tgcatcaaa gcttctccc ngcaacagca 360
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<210> 493
 <211> 580
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 aatataatca ctccactggt tacctaggcc tagacgtaca aaaggacacc cataatctcat 120
 caggagaaag acaattttga gtttctgggt gttagtaccaa gtggttatga tcaccacgta 180
 cgtggtctat ccagttact gtgtggcaat ttgctatttc aagtcccttc ataacagaaa 240
 ttactgaaat atgtgaaaca ccagtcaata taaagaattc attttaaac agactagtga 300
 atttgtgtca taaacacact tgcgtatgga tattaggaga gcattgctt aatatctcta 360
 aaactatttt taggaattaa aagcttcat agttaatggt atgatattgg ctttcagaat 420
 tcatattgtat aaaagcaaac cttagtcatt taacaggaat gtttaaattt tagagattct 480
 aacatgcgtat gccaaaaat cctaacattt ccacttagta atgtcagggt tgtgccagtt 540
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<210> 494
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<220>
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gctgaccctc	tctctgggg	tcttcctatg	gcggggccta	ttgctttagt	gggggaggag	180	
ccatcaaata	gaggggggca	gagaagacgg	tgacacagcg	gcctccgtga	gccacctcg	240	
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cgttctgtt	gctgtggatc	tgancaagaa	caaggtcaca	catggggccc	tgaatcttgg	420	
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<210> 495							
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<213> Homo sapiens							
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cacgcttgca	ctggccatcc	atctcacaga	aattgggggg	gttnagcatc	naacattggc	300	
canaantcac	tnggnacttn	ccaagggttn	cnccttgtt	ggnttngggg	ggttnacagg	360	
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<223> n=a,t,g or c							
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ccagggccaa	agaacccaaaa	taaatccaag	gagagagacc	aacaaatgt	tatttataaac	240	
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 tcaacatcat aatccacaaa agtctcannn ngaaaaccgg tgccggcgct ggatgtgctc 180
 tctgaagttg gcgcgtgcggg agttgggggt ctcccaaggg catcgccgca catatnggac 240
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<210> 498
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

<400> 498
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 ctcggtagtg cccttctcct ccaggttagcg ctgcacacgc tcgtatgttgg cacacacctg 180
 ggcctcatcc ttcaagtgtt ccacgtactc ttgggagtgaa gggtcangta ttntgcattt 240
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 nggcttggtc agcgttngtt gcaggttctc antctttcc agaatattct gctccaacaa 360
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 <212> DNA
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<220>
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 actccgcattg tccccagagg cagcaactcca nnngggtnng gggnaggggaa ggggtgctct 180
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 ccctctcccc gggacctggt gctgccccca gtcctgggg tgngctggna nanngggctc 300
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<400> 500

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<223> n=a,t,g or c						
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<223> n=a,t,g or c						
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<211> 437

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<210> 506

<211> 440

<212> DNA

<213> Homo sapiens

<400> 506

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ttctacCTTC ctgtatGTGT ttgGAATTGT atgtAGGTAG ccACTGAAAG aATTGGGCC 360
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<211> 291

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 425

<212> DNA

<213> Homo sapiens

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ggcagaagac acagagtagt aaggcacggc cqcttgcc ccacagggcq qqcaactqqac 180

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<210> 517
 <211> 494
 <212> DNA
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cagcacatat catgttgttg gtgaccacgc cagggtagaa gacctcacac tctttagggc 240
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<211> 409

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<213> Homo sapiens

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cactttggga	ggctgaggtg	ggcggttttc ttgatctcag gagtttgaga ccagccttag	180
caacacagcg	agacctggtc	tcaaaattat tatacaatca atgcaagtac aaagattcaa	240
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atatacagag	tggcggggc	aggcatggcc acagagggtgg tattacaaaa tatacaaagt	360
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<210> 521

<211> 545

<212> DNA

<213> Homo sapiens

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tcaggggacc	cacccgccc	ttacaggagt gaaccaccac	300
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 ggtttcagca tggtggccag gctggtcttg aactcctgac cttgtcatcc tcccaccttg 240
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<212> DNA
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tggcctggag	TGGCAGCAGC ATCCCCCTGAT ACTGGCTATT AAGTTCTGC AGCTGCATAAC	360
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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1799

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 582

<211> 594

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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